



Power Splitter/Combiner

Features

- wideband, 10 to 3000 MHz
- good isolation, 22 dB typ.
- small size

Applications

- instrumentation
- catv
- cellular
- GSM

JY-RPS-2-30+



2 Way-0° 50Ω 10 to 3000 MHz

electrical schematic



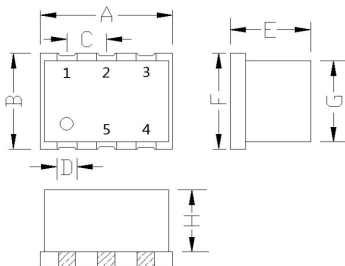
Transformer Electrical Specifications

Freq. range (MHz)	Isolation(dB)		Insertion Loss (dB) Above 3.0 dB.		Phase Unbalance (Degrees)		Amplitude Unbalance (dB)	
	min	max	min	max	min	max	min	max
10-3000	9	22	0.6	2.5	2.0	8.0	0.3	1.2

Typical Performance Data(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

Frequency.(M Hz)	Total Loss (dB)		Amp. Unbal. (dB)	Isolation (dB)	PhaseUnbal. (deg.)	VSWRS		
	S-1	S-2				S	1	2
10	3.53	3.52	0.01	18.61	0.01	2.00	1.57	1.57
50	3.55	3.55	0.01	19.19	0.04	1.97	1.59	1.59
100	3.56	3.56	0.00	19.33	0.06	1.97	1.59	1.59
400	3.66	3.64	0.02	19.78	0.09	1.94	1.62	1.62
600	3.73	3.70	0.03	20.10	0.14	1.91	1.63	1.62
800	3.79	3.72	0.07	20.65	0.09	1.88	1.64	1.63
1000	3.85	3.74	0.11	21.64	0.02	1.87	1.66	1.63
1400	3.96	3.69	0.27	24.95	0.59	1.77	1.71	1.65
1600	4.00	3.66	0.34	26.31	0.88	1.74	1.72	1.64
1800	4.05	3.62	0.43	25.64	1.27	1.66	1.75	1.64
2000	4.18	3.65	0.52	23.38	1.59	1.61	1.74	1.63
2400	4.24	3.61	0.63	19.00	2.43	1.51	1.74	1.63
2600	4.32	3.65	0.67	17.42	2.83	1.54	1.75	1.64
2900	4.49	3.78	0.71	15.51	3.65	1.51	1.72	1.66
3000	4.68	3.93	0.75	15.02	4.13	1.52	1.72	1.68

Outline Drawing

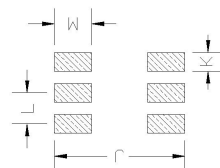


Suggested Layout,
Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)

A	8.70	G	5.50
B	6.50	H	4.30
C	2.54	L	2.54
D	1.30	J	8.00
E	5.40	K	1.50
F	6.54	M	2.00
WT	3g		

PCB Land Pattern

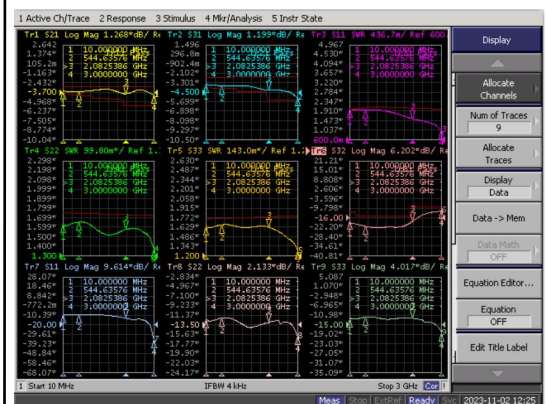


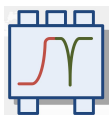
Pin Connections

SUM PORT	6
PORT 1	4
PORT 2	3
GROUND	1,2,5

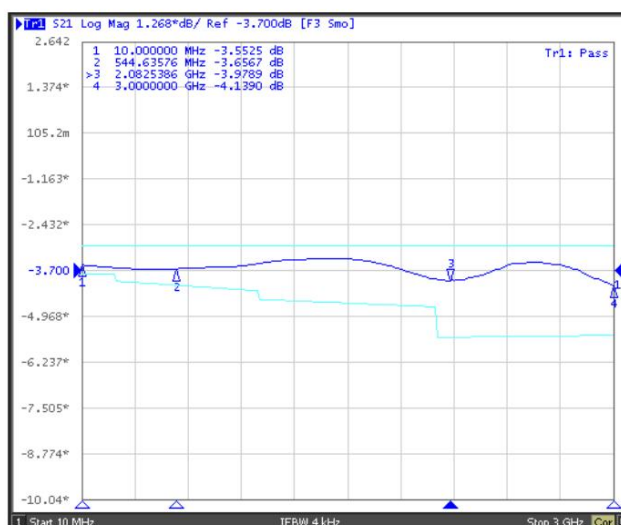
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input (as a splitter)	0.5 W max.
Internal Dissipation	0.125W max.
Permanent damage may occur if any of these limits are exceeded.	

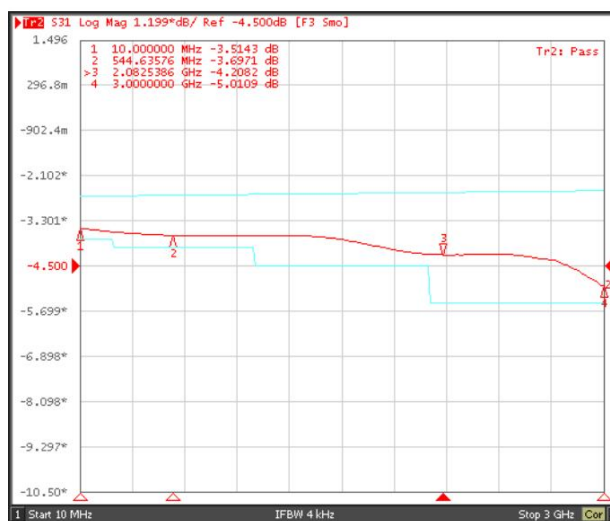




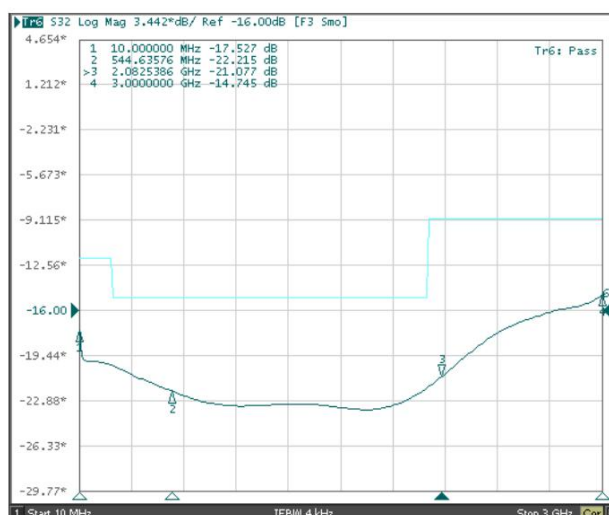
S-2

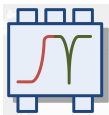


S-1

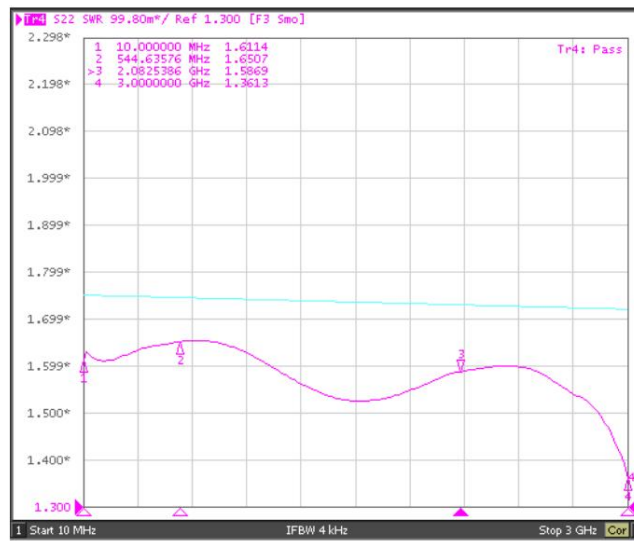


Isolation

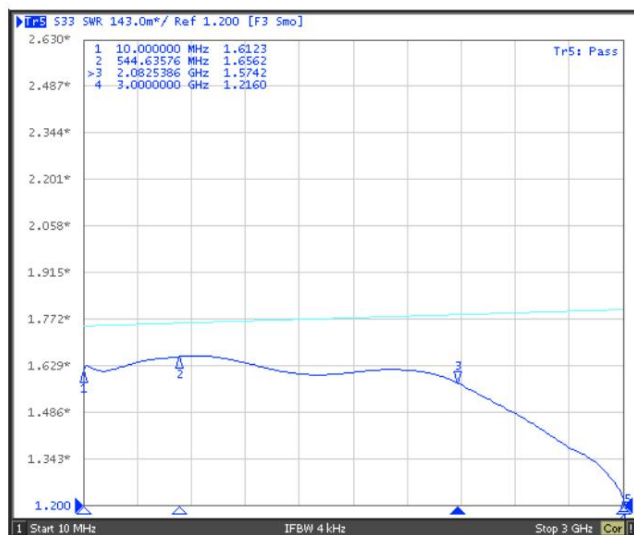




#1-VSWR



#2-VSWR



#S-VSWR

